

PHYSEOPARDY

Equilibrium

Fill in
The _____

Mass
Vs.
Weight

Newton's
1st Law

Solving
Problems

\$100

\$100

\$100

\$100

\$100

\$200

\$200

\$200

\$200

\$200

\$300

\$300

\$300

\$300

\$300

\$400

\$400

\$400

\$400

\$400

\$500

\$500

\$500

\$500

\$500

You have selected an area of the board not in play.

OOPS!

[Click here to go back to the main board](#)

Equilibrium - *\$100*

What does Equilibrium
mean?

ANSWER

Equilibrium - \$200

Equilibrium occurs when:

- a. all the forces acting on an object are balanced.
- b. the sum of the forces to the left equals the sum of forces to the right
- c. the net force on the object is zero.
- d. the sum of the upward forces equals the sum of the downward forces.
- e. all of the above

ANSWER

Equilibrium - \$300

A girl whose weight is 500 N hangs from the middle of a bar supported by two vertical strands of rope.

What is the tension in each strand?

ANSWER

Equilibrium - *\$400*

What are the 2 different kinds
of Equilibrium?

ANSWER

Equilibrium - *\$500*

Write the Equilibrium Rule
in just four symbols.

ANSWER

Fill in the _____ - \$100

Force is a _____ or a
_____.

ANSWER

Fill in the _____ - \$200

Vectors have _____ and _____ .

ANSWER

Fill in the _____ - \$300

Weight is a force due to _____ .

ANSWER

Fill in the _____ - \$400

Speed is change in _____ over
change in _____ .

ANSWER

Fill in the _____ - \$500

Mass is a measure of _____ .

ANSWER

Mass vs. Weight - *\$100*

Which is a force?

ANSWER

Mass vs. Weight - \$200

Which is measured in kilograms?

ANSWER

Mass vs. Weight - \$300

Compared to its weight on Earth, a 10-kg object on the moon will weigh

- a. the same amount.
- b. less.
- c. more.

ANSWER

Mass vs. Weight - \$400

Compared to its mass on Earth, the mass of a 10-kg object on the moon is

- a. the same.
- b. more.
- c. less.

ANSWER

Mass vs. Weight - \$500

You hold a 2-kg object in one hand and a 3-kg object in the other. Does the 3-kg object have more mass or weight?

ANSWER

Newton's 1st Law - \$100

The law of inertia applies to

- a. objects at rest.
- b. moving objects.
- c. both moving and nonmoving objects.

ANSWER

Newton's 1st Law - \$200

Which scientist is famous for the idea that the earth and planets go around the sun?

- a. Aristotle
- b. Copernicus
- c. Galileo
- d. Newton

ANSWER

Newton's 1st Law - \$300

After a cannonball is fired into frictionless outer space, the amount of force needed to keep it going equals

- a. zero, since no force is necessary to keep it moving
- b. twice the force with which it was fired.
- c. one half the force with which it was fired.
- d. the same amount of force with which it was fired.

ANSWER

Newton's 1st Law - \$400

You are standing in the aisle of a plane that is cruising at 500 mph. You drop your bag of peanuts. Will they land:

- a. Behind you a ways
- b. At your feet below your hands
- c. In front of you a ways

ANSWER

Newton's 1st Law - \$500

Define inertia.

ANSWER

Solving Problems - *\$100*

A 5-N force and a 30-N force act in the same direction on an object. What is the net force on the object?

ANSWER

Solving Problems - \$200

A 15-N force and a 45-N force act on an object in opposite directions.

What is the net force?

ANSWER

Solving Problems - \$300

Suppose you take a trip that covers 200 km and takes 4 hours to make. What is your average speed?

ANSWER

Solving Problems - \$400

A horse goes a speed of 12 m/s for 6 seconds. What distance did the horse travel in that time?

ANSWER

Solving Problems - \$500

How much does a
4.0 kg bag of bolts
weigh on earth?

ANSWER

*****Answers*****

Equilibrium - *\$100*

Balanced or
Steady

DONE

Equilibrium - \$200

Equilibrium occurs when:

- a. all the forces acting on an object are **balanced**.
- b. the sum of the forces to the **left** equals the sum of forces to the **right**
- c. the **net force** on the object is **zero**.
- d. the sum of the **upward** forces equals the sum of the **downward** forces.
- e. **all of the above**

DONE

Equilibrium - \$300

250 N each

DONE

Equilibrium - \$400

Static and Dynamic
(still and moving)

DONE

Equilibrium - *\$500*

$$\Sigma F = 0$$

DONE

Fill in the _____ - \$100

“push” / “pull”

DONE

Fill in the _____ - \$200

“size” / “direction”?

DONE

Fill in the _____ - \$300

“gravity”

DONE

Fill in the _____ - \$400

**“distance” /
“time”**

DONE

Fill in the _____ - \$500

“inertia”

DONE

Mass vs. Weight - *\$100*

Weight

DONE

Mass vs. Weight - \$200

Mass

DONE

Mass vs. Weight - \$300

Compared to its weight on Earth, a 10-kg object on the moon will weigh

- a. the same amount.
- b. less.**
- c. more.

DONE

Mass vs. Weight - \$400

Compared to its mass on Earth, the mass of a 10-kg object on the moon is

- a. **the same.**
- b. more.
- c. less.

DONE

Mass vs. Weight - \$500

The 3-kg object has both more
mass and weight

DONE

Newton's 1st Law - \$100

The law of inertia applies to

- a. objects at rest.
- b. moving objects.
- c. **both moving and nonmoving objects.**

DONE

Newton's 1st Law - \$200

Which scientist is famous for the idea that the earth and planets go around the sun?

- a. Aristotle
- b. Copernicus**
- c. Galileo
- d. Newton

DONE

Newton's 1st Law - \$300

After a cannonball is fired into frictionless outer space, the amount of force needed to keep it going equals

- a. **zero, since no force is necessary to keep it moving.**
- b. twice the force with which it was fired.
- c. one half the force with which it was fired.
- d. the same amount of force with which it was fired.
- e. one quarter the force with which it was fired.

DONE

Newton's 1st Law - \$400

You are standing in the aisle of a plane that is cruising at 500 mph. You drop your bag of peanuts. Will they land:

- a. Behind you a ways
- b. At your feet below your hands**
- c. In front of you a ways

DONE

Newton's 1st Law - \$500

The name for the tendency of matter to resist changes to its motion.

DONE

Solving Problems - *\$100*

35 N

DONE

Solving Problems - \$200

30 N

DONE

Solving Problems - \$300

$$s = d/t$$

$$= 200 \text{ km} / 4 \text{ hr}$$

$$= \mathbf{50 \text{ km/hr}}$$

DONE

Solving Problems - \$400

$$s = \Delta d / \Delta t$$

$$d = s * t = 12 \text{ m/s} * 6\text{s}$$

$$= 72 \text{ m}$$

DONE

Solving Problems - \$500

$$W = m * g$$

$$= 4 \text{ kg} * 10 \text{ m/s}^2$$

$$= 40 \text{ N}$$

DONE

**DAILY
DOUBLE**

CONTINUE

**DAILY
DOUBLE**

CONTINUE

Final Jeopardy

The Names of the Both Vice-Presidential Candidates.

Answer



Final Jeopardy

Election: 2008

Continue

Final Jeopardy

Answer

Question:

Who are Gov. Sarah
Palin and Sen.
Joseph Biden, Jr.

Directions for Changing the Game

- To change the questions and answers, just type over the problems...Use the “replace” feature to change the categories easily
- The daily doubles were originally set to category #4 for \$500 and category #2 for \$300
- To change the daily doubles you must
 - 1. Change the hyperlink for the links on the main board to go to the appropriate question, therefore bypassing the daily double slide
 - 2. Change the hyperlink on the continue button on each daily double slide to go to the new question.